

CLAIMS

What is claimed is:

1. A commercial and institutional kitchen grease removal method used in a kitchen having an exhaust hood, exhaust flue, a fan, a roof and a drain line, comprising:
 - spraying a washing solution into the exhaust flue;
 - spraying the washing solution into the exhaust hood;
 - containing the washing solution within the exhaust hood;
 - draining the washing solution from the exhaust hood;
 - collecting and recirculating the washing solution drained from the exhaust hood;
 - accumulating grease seeping out of the exhaust flue and the fan;
 - flushing the grease which has been accumulated with the recirculated washing solution; and
 - discharging the flushed washing solution through a drain line.
2. An apparatus for bioremediating a fluid entrained with grease from a kitchen, comprising:
 - a discharge chamber;
 - a receiver chamber connected to the discharge chamber by a first flow line;
 - a circulation chamber connected to the discharge chamber by the first flow line;
 - a pump contained in the first flow line;
 - a first valve connected in the first flow line;
 - a first means for stratifying the fluid connected inside the circulation chamber;
 - a second means for stratifying the fluid connected inside the receiver chamber;
 - a second flow line connected between the receiver chamber and the circulation chamber;
 - a first weir having one end connected near the top level of the circulation chamber and

another connected to terminated in the discharge chamber;

a second weir having one end connected near the top level of the receiver chamber and another end connected to the discharge chamber;

a means for removing reclaimed fluid from the circulation chamber attached to the circulation chamber;

a means for adding fluid to be remediated to the receiver chamber attached to the receiver chamber;

an equalization line connecting the receiver chamber to the discharge chamber; and

a second valve contained in the equalization line.

3. A baffle filter unit for use in containing grease and to be installed in a vent hood comprising:
- a plurality of intermediate channel members oriented in assembly to overlap, oppose and spaced wherein each of said intermediate channel sections includes a U shaped body with two horizontal return legs each bending and projecting from an end of the U shaped body;
- a top channel stringer attached over a top end of said intermediate channel sections;
- a bottom channel stringer attached over a bottom end of said intermediate channel sections wherein said bottom channel stringer defines openings to facilitate fluid drainage;
- a male side channel attached to one side of said intermediate channel sections; and
- a female side channel attached at another side of said intermediate channel sections.